

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1343465

Luminaire Tested: P3A13R159050DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R159050DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

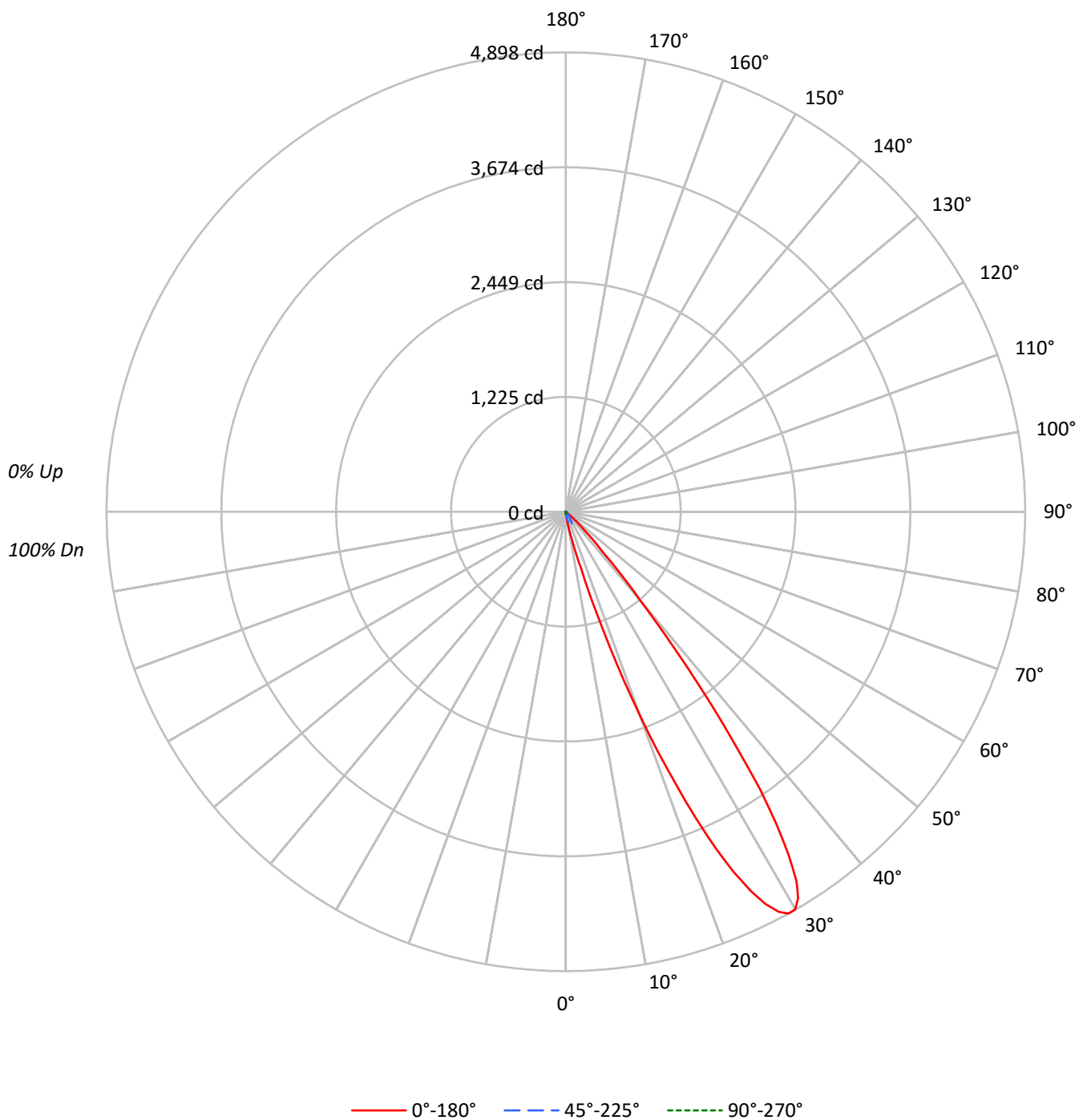
Lumens per Lamp: N/A
Luminaire Lumens: 535.0 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71
6	81	71	64	59	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3881	3881	3881	3881	3881
5°	8364	6185	3676	1937	1607
10°	37073	11712	2895	802	579
15°	140228	27060	1998	363	227
20°	539327	38130	1213	117	117
25°	1025575	35760	629	0	0
30°	1238925	28865	253	0	0
35°	966262	19649	134	0	0
40°	352603	9675	143	0	143
45°	90552	2915	155	0	310
50°	15283	341	171	171	546
55°	1988	0	382	612	994
60°	219	219	702	921	1360
65°	259	259	1090	1349	1608
70°	321	321	1346	1346	1667
75°	424	424	1779	1356	1779
80°	0	631	2020	1263	2020
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 90552 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	41.0	7.7
20°-30°	227.4	42.5
30°-40°	219.7	41.1
40°-50°	38.2	7.1
50°-60°	2.7	0.5
60°-70°	1.6	0.3
70°-80°	1.3	0.2
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	270.8	50.6
0°-40°	490.5	91.7
0°-60°	531.4	99.3
0°-90°	535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	535.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	38	28	17	9	7	7
15°	618	119	9	2	1	275
25°	4239	148	3	0	0	1895
35°	3610	73	0	0	0	2076
45°	292	9	0	0	1	314
55°	5	0	1	2	3	10
65°	0	0	2	3	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
2.5°	26.0	25.0	25.5	25.5	25.5	25.5	25.5	24.5	24.5	25.0	22.4
5°	38.0	38.0	37.5	38.0	38.0	37.5	36.4	35.9	35.9	34.9	28.1
7.5°	76.0	74.9	74.9	73.9	68.7	67.1	66.1	63.5	58.8	57.8	36.4
10°	166.5	167.1	163.4	158.7	158.2	150.4	147.8	143.1	134.3	125.4	52.6
12.5°	302.4	295.6	286.8	287.3	272.2	267.0	255.0	242.0	228.5	214.4	86.4
15°	617.7	598.5	609.9	581.8	550.1	514.2	477.7	431.9	392.9	351.3	119.2
17.5°	1301.1	1319.8	1288.0	1167.8	1093.9	1007.0	884.7	766.6	665.6	584.4	145.7
20°	2311.2	2338.8	2231.0	2126.4	1946.9	1751.2	1547.2	1316.1	1095.0	903.4	163.4
21°	2733.2	2716.6	2672.4	2504.8	2297.7	2070.8	1821.0	1565.9	1297.9	1049.2	165.0
22°	3141.3	3149.1	3046.0	2870.6	2655.2	2403.8	2098.9	1784.0	1495.2	1167.8	162.4
23°	3547.7	3572.7	3436.3	3271.9	3000.7	2717.1	2364.3	2024.4	1667.4	1303.7	157.2
24°	3924.0	3906.8	3814.7	3607.6	3317.7	2985.7	2619.3	2207.1	1809.0	1419.7	153.0
25°	4238.8	4236.7	4092.1	3890.7	3559.2	3191.2	2787.4	2356.5	1930.2	1498.3	147.8
26°	4496.4	4454.3	4340.3	4094.7	3767.3	3379.1	2925.3	2465.2	1998.4	1537.8	142.6
27°	4695.2	4665.0	4512.0	4256.5	3914.6	3485.3	3013.8	2519.4	2029.6	1550.9	135.8
28°	4829.0	4796.2	4633.3	4370.0	3995.8	3551.9	3060.6	2542.3	2029.6	1538.4	129.6
29°	4898.2	4853.4	4691.1	4409.0	4014.5	3559.7	3049.1	2519.9	1997.9	1499.9	122.3
30°	4893.0	4837.3	4667.1	4373.6	3958.8	3495.7	2985.1	2439.2	1926.1	1442.6	114.0
31°	4808.7	4746.2	4556.3	4253.9	3843.8	3374.9	2864.4	2331.0	1827.7	1368.2	105.6
32°	4637.5	4558.4	4373.1	4071.8	3666.9	3194.3	2689.0	2163.9	1680.4	1259.4	96.8
33°	4358.5	4278.9	4080.1	3797.5	3427.5	2965.4	2456.4	1984.4	1512.9	1129.8	89.5
34°	4009.3	3936.5	3765.2	3480.6	3125.6	2675.5	2188.9	1736.1	1339.0	1001.3	81.7
35°	3609.6	3493.6	3338.5	3113.2	2767.1	2314.3	1900.1	1505.1	1160.0	866.5	73.4
36°	3068.9	3089.7	2925.3	2649.5	2362.7	2007.8	1610.2	1254.7	970.1	738.5	66.1
37°	2589.6	2556.8	2452.2	2238.8	1989.0	1636.7	1349.5	1063.7	816.0	624.5	58.3
38°	2089.0	2096.3	1993.7	1829.8	1582.1	1345.8	1086.1	873.8	682.8	531.3	51.0
39°	1635.2	1629.4	1601.9	1449.9	1225.6	1070.5	880.0	724.4	568.8	448.1	43.2
40°	1231.8	1241.2	1176.7	1085.1	954.5	826.9	701.0	577.7	470.5	377.8	33.8
42.5°	599.0	613.6	570.9	547.5	489.7	439.8	371.1	302.9	257.6	222.7	15.1
45°	292.0	283.6	280.0	268.5	255.0	227.9	201.9	173.3	151.4	130.6	9.4
47.5°	149.4	145.2	145.2	140.5	135.8	127.0	114.0	104.6	94.2	81.2	3.6
50°	44.8	44.2	43.7	44.2	42.7	44.2	45.3	45.8	41.6	41.1	1.0
52.5°	17.7	18.2	17.7	19.3	19.3	18.7	19.3	18.7	18.2	16.1	0.0
55°	5.2	5.2	5.2	5.2	5.2	5.2	5.7	6.2	5.7	6.2	0.0
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.7	17.7	17.7	17.7	17.7	17.7
2.5°	20.8	18.2	15.1	12.5	11.4	10.9
5°	22.4	16.7	11.4	8.8	7.8	7.3
7.5°	23.9	15.1	8.8	6.2	4.7	4.2
10°	25.0	13.0	6.8	3.6	2.6	2.6
12.5°	25.0	10.4	4.7	2.1	1.6	1.6
15°	24.5	8.8	3.1	1.6	1.0	1.0
17.5°	23.9	6.8	2.1	1.0	0.5	1.0
20°	22.4	5.2	1.0	0.5	0.5	0.5
21°	21.9	4.7	1.0	0.5	0.5	0.5
22°	20.8	4.2	0.5	0.0	0.5	0.5
23°	19.8	3.1	0.5	0.0	0.0	0.0
24°	18.2	2.6	0.5	0.0	0.0	0.0
25°	17.2	2.6	0.5	0.0	0.0	0.0
26°	16.1	1.6	0.0	0.0	0.0	0.0
27°	14.6	1.0	0.0	0.0	0.0	0.0
28°	13.5	1.0	0.0	0.0	0.0	0.0
29°	12.0	1.0	0.0	0.0	0.0	0.0
30°	10.4	1.0	0.0	0.0	0.0	0.0
31°	8.3	0.5	0.0	0.0	0.0	0.0
32°	6.8	0.5	0.0	0.0	0.0	0.0
33°	4.7	0.5	0.0	0.0	0.0	0.0
34°	3.1	0.5	0.0	0.0	0.0	0.0
35°	2.6	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.5	0.0	0.0	0.0	0.5
37°	1.6	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.6
52.5°	0.0	1.0	0.5	1.0	1.6	2.1
55°	0.5	1.0	1.0	1.6	2.1	2.6
57.5°	0.5	1.6	1.6	2.1	2.6	2.6
60°	1.0	1.6	2.1	2.1	3.1	3.1
62.5°	1.0	2.1	2.1	2.1	3.1	3.1
65°	1.0	2.1	2.1	2.6	3.1	3.1
67.5°	1.0	2.1	2.1	2.1	2.6	3.1
70°	1.0	2.1	1.6	2.1	2.6	2.6
72.5°	1.0	2.1	1.6	1.6	2.1	2.6
75°	1.0	2.1	1.6	1.6	2.1	2.1
77.5°	1.0	1.6	1.6	1.0	1.6	1.6
80°	1.0	1.6	1.0	1.0	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.6	1.0	0.5	1.0	1.0
85°	1.0	1.6	1.0	0.5	0.5	0.5
87.5°	1.0	1.6	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)